BRUHAT BANAGLORE MAHANAGARA PALIKE

Yelahanka Division

Name of work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara layout in ward no-03.

Estimated cost RS:-50.00 Lakh,s

Sl. No.	Description of item,s	Unit	Nos	Dimension L	Dimension B	Dimension D	Quantity	Rate	Amount
1	Removing B.S slab of drain and stacking (P.No 25 I.No 5.32)								
	(Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
	Basic rate	62.00							
	Area Wieght age @ 6%	3.72							
	Total Rate in Rs	65.72							
	Ashwathanarayana 1st cross road	Sqm	2	250.00	1.35		675.00		
	chikka dinne 4th main L/Side balance Road		2	48.00	1.35		129.60		
	Thirumalanagara 6th cross R/Side Balance cross Road		2	65.00	1.35		175.50		
							980.10		
	Deduction for damaged 35%						343.04		
							637.07	65.72	41867.91
2	Refixing stone slabs of drains and pointing in CM(1:3)(P.No 25 I.No 5.33)								
		sqm		Vide Item No. 1			637.07	80.56	51322.00
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	80.56							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do 7.5 cms thick								
	Basic Rate	628.00							
	Area Weightage @ 6%	37.68							
	Total	665.68							
	for damaged drain	Sqm					343.04		
	New drain		2	20.00	1.35		54.00		
							397.04	665.68	264298.26
4	KSRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m. excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
	(Page No142., I.No.19.1 of KPWD S.R 2016-17).								
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	86.92							
	Desiltingof drains:-	Cum.	2	270.00	0.45	0.30	72.90		
	chikka dinne 4th main L/Side balance Road		2	48.00	0.45	0.30	12.96		
	Thirumalanagara 6th cross R/Side Balance cross Road		2	65.00	0.45	0.30	17.55		
	Extra over burden earth		2	270.00	0.40	0.15	32.40		
	chikka dinne 4th main L/Side balance Road		2	48.00	0.40	0.15	5.76		
	Thirumalanagara 6th cross R/Side Balance cross Road		2	65.00	0.40	0.15	7.80		
	New drain		2	20.00	0.60	0.35	8.40		
							157.77	86.92	13713.37
5	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P25/5.27)								

Sl. No.	Description of item,s	Unit	Nos	Dimension			Quantity	Rate	Amount
				L	B	D			
	Ashwathanarayana 1st cross road	Sqm	2	270.00		0.40	216.00		
							216.00	993.22	214536.00
	Basic Rate	937.00							
	Area Weightage @ 6%	56.22							
	Total	993.22							
6	KSRB 5-15: Providing and constructing Non load bearing wall with cement concrete solid blocks with compressive strength not less than 35Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x10x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P25/5.28)								
	Ashwathanarayana 1st cross road	Sqm	2	270.00		0.40	216.00		
	Basic Rate	716.00					**216.00**	758.96	163935.00
	Area Weightage @ 6%	42.96							
	Total	758.96							
7	KSRRB 4.1:6Providing and laying in position plain **cement concrete mix 1:2:4** with cement @240kgs,with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15cms thick well compacted,in foundation,plinth and cills,including cost of all materials, labour, HOM of machineries, curing complete as per specifications.Specification no4.1,4.2 **(Page.12 & Item No. 4.6)**								
	Base concrete	Cum.	2	270.00	0.25	0.10	13.50		
			2	270.00	0.15	0.10	8.10		
	Coping concrete		2	270.00	0.20	0.05	5.40		
			2	270.00	0.10	0.05	2.70		
	Basic Rate	5441.00					**29.70**	5767.46	171293.56
	Area Weightage @ 6%	326.46							
	Total	5767.46							
8	Providing and fixing Precast RCC Slabs as Per approved design, specification and Direction Engineer-in-Charge. (Approved Data Rate).								
		sqm	2	270.00	0.90		486.00	2100.00	1020600.00
9	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	(Page No 143., I.No.19.14 of KPWD S.R 2016-17).								
	Basic rate	46.00							
	Area Wieght age @ 6%	2.76							
	Total Rate in Rs	48.76							
	Ashwathanarayana 1st cross road	Cum.	1	270.00	5.80	0.20	313.20		
	Cross road		1	20.00	6.00	0.15	18.00		
	chikka dinne 4th main L/Side balance Road		1	48.00	4.50	0.20	43.20		
	Thirumalanagara 6th cross R/Side Balance cross Road		1	65.00	7.50	0.25	121.88		
							496.28	48.76	24198.37
10	KSRRB M300-53 : Construction of embankment with approved material Gravel/Murrum with all lifts and leads, trasnporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305. **(Page No. 144 & Item No. 19.60)**								
	Basic rate	302.00							
	Area Wieght age @ 6%	18.12							
	Total Rate in Rs	320.12							
	Ashwathanarayana 1st cross road	Cum.	1	270.00	5.80	0.20	313.20		
	chikka dinne 4th main L/Side balance Road		1	48.00	4.50	0.20	43.20		
	Thirumalanagara 6th cross R/Side Balance cross Road		1	65.00	7.50	0.20	97.50		

Sl. No.	Description of item.s	Unit	Nos	Dimension			Quantity	Rate	Amount
				L	B	D			
							453.90	320.12	145302.00
11	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material								
	(Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
	Basic rate	1571.00							
	Area Wieght age @ 6%	94.26							
	Total Rate in Rs	1665.26							
	Ashwathanarayana 1st cross road	Cum.	1	270.00	5.80	0.15	234.90		
	chikka dinne 4th main L/Side balance Road		1	48.00	4.50	0.15	32.40		
	Thirumalanagara 6th cross R/Side Balance cross Road		1	65.00	7.50	0.15	73.13		
							340.43	1665.26	566896.14 ✓
12	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
	(Page No 158., I.No.20.18 of KPWD S.R 2016-17).								
	Basic rate	1668.00							
	Area Wieght age @ 6%	100.08							
	Total Rate in Rs	1768.08							
	Ashwathanarayana 1st cross road	Cum.	1	270.00	5.80	0.20	313.20		
	Cross road		1	20.00	6.00	0.15	18.00		
	chikka dinne 4th main L/Side balance Road		1	48.00	4.50	0.20	43.20		
	Thirumalanagara 6th cross R/Side Balance cross Road		1	65.00	7.50	0.20	97.50		
							471.90	1768.08	834356.95 ✓
13	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502								
	(Page No 161., I.No.21.6 of KPWD S.R 2016-17).								
	Basic rate	26.00							
	Area Wieght age @ 6%	1.56							
	Total Rate in Rs	27.56							
	Ashwathanarayana 1st cross road	sqm	1	270.00	5.80		1566.00		
	Cross road		1	20.00	6.00		120.00		
	chikka dinne 4th main L/Side balance Road		1	48.00	4.50		216.00		
	Thirumalanagara 6th cross R/Side Balance cross Road		1	65.00	7.50		487.50		
							2389.50	27.56	65854.62 ✓
14	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								
	(Page No 161., I.No.21.7 of KPWD S.R 2016-17).								
	Basic rate	11.00							
	Area Wieght age @ 6%	0.66							
	Total Rate in Rs	11.66							
	Ashwathanarayana 1st cross road	sqm	1	270.00	5.80		1566.00		
	Cross road		1	20.00	6.00		120.00		
	chikka dinne 4th main L/Side balance Road		1	48.00	4.50		216.00		
	Thirumalanagara 6th cross R/Side Balance cross Road		1	65.00	7.50		487.50		

No.	Description of items	Unit	Nos	Dimension			Quantity	Rate	Amount
				L	B	D			
							2389.50	11.66	27861.57
15	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507								
	(Page No 163., I.No.21.17.6 of KPWD S.R 2016-17).								
	Basic rate	6071.00							
	Area Wieght age @ 6%	364.26							
	Total Rate in Rs	6435.26							
	Ashwathanarayana 1st cross road	Cum.	1	270.00	5.80	0.050	78.30		
	Cross road		1	20.00	6.00	0.050	6.00		
	chikka dinne 4th main L Side balance Road		1	48.00	4.50	0.050	10.80		
	Dharmalanagara 6th cross R Side Balance cross Road		1	65.00	7.50	0.050	24.38		
							119.48	6435.26	768852.69
16	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509								
	(Page No 165., I.No.21.22.6 of KPWD S.R 2016-17).								
	Basic rate	6859.00							
	Area Wieght age @ 6%	411.54							
	Total RS	7270.54							
	Ashwathanarayana 1st cross road	Cum.	1	270.00	5.80	0.030	46.98		
	Cross road		1	20.00	6.00	0.030	3.60		
	chikka dinne 4th main L Side balance Road		1	48.00	4.50	0.030	6.48		
	Dharmalanagara 6th cross R Side Balance cross Road		1	65.00	7.50	0.030	14.63		
							71.69	7270.54	521188.66
17	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 7kms.								
	(Refer Table, Page No.140)								
	Basic rate	90.40							
		Cum.	For item no		4		157.77		
			For item no		9		496.28		
							654.05	90.40	59125.67
18	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
	(Page No 185, I.No.24.15 of KPWD S.R 2016-17).								
	Basic rate	512.00							
	Area Wieght age @ 6%	30.72							
	Total Rate in Rs	542.72							
	Ashwathanarayana 1st cross road	Sqm	2	270.00	0.10		54.00		
	Cross road		2	20.00	0.10		4.00		
	chikka dinne 4th main L Side balance Road		2	48.00	0.10		9.60		
	Dharmalanagara 6th cross R Side Balance cross Road		2	65.00	0.10		13.00		
							80.60	542.72	43743.23

Sl. No.	Description of item,s	Unit	Nos	Dimension			Quantity	Rate	Amount
				L	B	D			
19	Misellenous and other charges								973.00 (956.98)
								Grand Total RS	5000000.00

(Fifty lakhs only)

Certificate:-

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per C.S.R. of 2016-17
3. The provisions were made in this estimate are necessary and adequate.
4. This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 03

Executive Engineer
Yelahanka Division

Assistant Executive Engineer
Yelahanka New town Sub Division

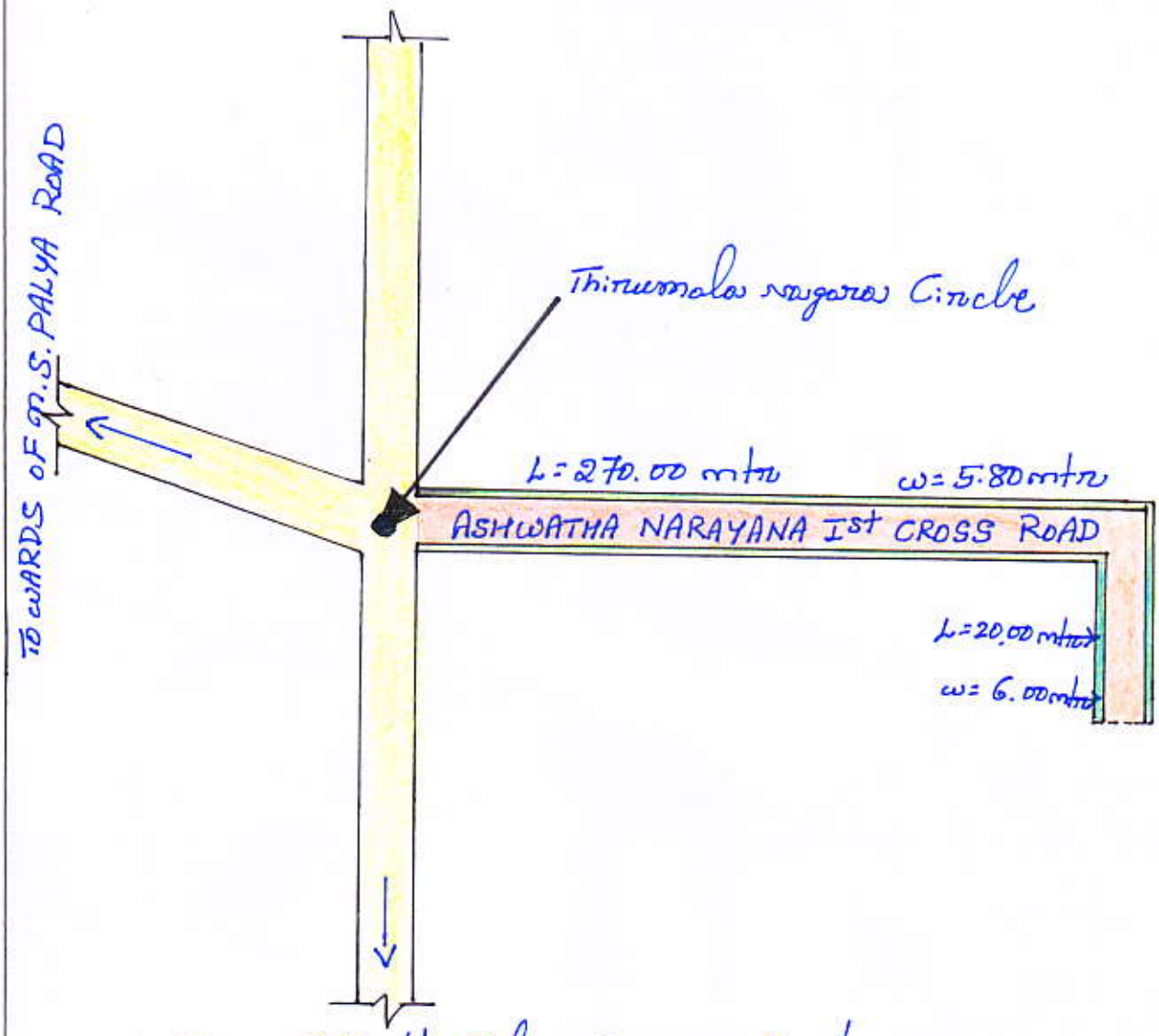
ADMINISTRATIVELY SANCTIONED FOR Rs 50.00L
Rupees fifty lakhs only
Under Job No-003-17-000069
Subject to conditions contained in
endorsed hereon EE(T) No 9
Dt Estimate Sanctioned
J.C(Y)/DPR/AS/38/17-18
dated 24-8-2017 for 50.00 lakhs

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

Technical Sanction
Accepted for 50.00 lakh Rs
Head of A/C 53172
CER NO 190 Dt. 27/09/17

TA CE (YNK).

Name of work:- Improvements and asphalting to balance roads at Thirumalanagara and muneshwara layout in ward no-03.



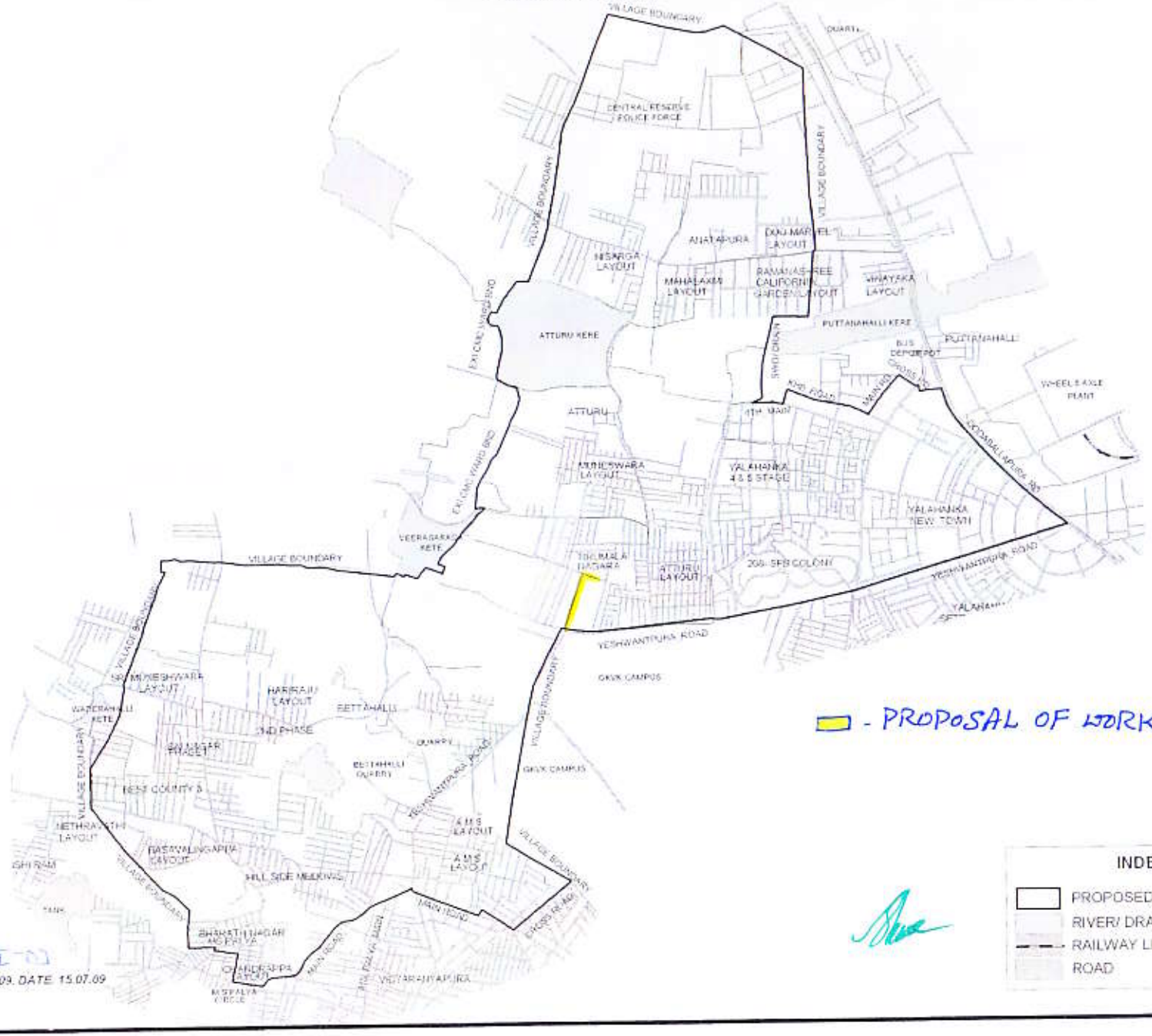
INDEX :-

- B.C. Road
- Flagging course with slabs
- B.S. Slab drain
- Existing Asphalt Roads

AE-03

150 - YELAHANKA AC

BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 3- ATTURU



NOTIFICATION NO. UDD 59 MLR 2009, DATE 15.07.09